UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 3 Environmental Science Center
Office of Analytical Services and Quality Assurance
701 Mapes Road
Fort Meade, Maryland 20755-5350

Final Analytical Report

Site Name.....	Dimock Residential Groundwater
Sample Collection Date(s).....	07/03/12 11:38- 07/03/12 12:24
Contact.....	Rich Fetzer
Report Date.....	07/11/12 18:27
Project #.....	DAS R34015
Work Order.....	1207005

Analyses included in this report:

Total Metals by 200.7

Approved for Release

C. Capriola

OASQA Representative

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Report Narrative

The EPA Region 3 Laboratory's Quality System is NELAP accredited. The National Environmental Laboratory Accreditation Program (NELAP) is a voluntary environmental laboratory accreditation association of State and Federal agencies.

General Notes:
This report contains results for all requested analyses.
All samples were received intact and at proper temperature.

Unless otherwise noted below, all required instrument and method QC was run and was within criteria.

Metals Analysis Note:
The original request asked for manganese to be analyzed by method 200.8, but, due to instrument problems it was decided that the samples would be analyzed by method 200.7. This method was sensitive enough to meet the analytical requirements.

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Matrix	Date Sampled	Date Received
FB25	1207005-01	Drinking Water	07/03/12 11:49	07/6/12 12:15
FB25-F	1207005-02	Drinking Water	07/03/12 11:49	07/6/12 12:15
HW08a_R3	1207005-03	Drinking Water	07/03/12 11:38	07/6/12 12:15
HW08a-F_R3	1207005-04	Drinking Water	07/03/12 11:38	07/6/12 12:15
HW08a-P_R3	1207005-05	Drinking Water	07/03/12 12:24	07/6/12 12:15
HW08a-PF_R3	1207005-06	Drinking Water	07/03/12 12:24	07/6/12 12:15
HW08az_R3	1207005-07	Drinking Water	07/03/12 11:41	07/6/12 12:15
HW08az-F_R3	1207005-08	Drinking Water	07/03/12 11:41	07/6/12 12:15
HW08b-P_R3	1207005-09	Drinking Water	07/03/12 12:04	07/6/12 12:15
HW08b-PF_R3	1207005-10	Drinking Water	07/03/12 12:04	07/6/12 12:15

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USEPA CLP Generic COC (LAB COPY)
DateShipped: 7/5/2012
CarrierName: FedEx
AirbillNo: 7937 5280 4206

CHAIN OF CUSTODY RECORD
Case #: CT607

No: 3-070312-162032-0241
Lab: EPA R3 Laboratory
Lab Contact:
Lab Phone: 410.305.3032

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
FB25	Drinking Water/ Brian Burris	Grab	07-Manganese	41430 (HNO3) (1)	FB25	07/03/2012 11:49	1207005-01
FB25-F	Drinking Water/ Brian Burris	Grab	07-Manganese Dissolved	41431 (HNO3) (1)	FB25-F	07/03/2012 11:49	-02
HW08a_R3	Drinking Water/ Brian Burris	Grab	07-Manganese	41426 (HNO3) (1)	HW08a	07/03/2012 11:38	-03
HW08a-F_R3	Drinking Water/ Brian Burris	Grab	07-Manganese Dissolved	41427 (HNO3) (1)	HW08a	07/03/2012 11:38	-04
HW08a-P_R3	Drinking Water/ Brian Burris	Grab	07-Manganese	41434 (HNO3) (1)	HW08a-P	07/03/2012 12:24	-05
HW08a-PF_R3	Drinking Water/ Brian Burris	Grab	07-Manganese Dissolved	41435 (HNO3) (1)	HW08a-P	07/03/2012 12:24	-06
HW08az_R3	Drinking Water/ Brian Burris	Grab	07-Manganese	41428 (HNO3) (1)	HW08a	07/03/2012 11:41	-07
HW08az-F_R3	Drinking Water/ Brian Burris	Grab	07-Manganese Dissolved	41429 (HNO3) (1)	HW08a	07/03/2012 11:41	-08
HW08b-P_R3	Drinking Water/ Brian Burris	Grab	07-Manganese	41432 (HNO3) (1)	HW08b-P	07/03/2012 12:04	-09
HW08b-PF_R3	Drinking Water/ Brian Burris	Grab	07-Manganese Dissolved	41433 (HNO3) (1)	HW08b-P	07/03/2012 12:04	-10

Sample(s) to be used for Lab QC: HW08a_R3, HW08a-F_R3

Temp Blank 6°C

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
10	B Burris	7/3/12		7/3/12	1645	10		7/5/12		7/6/12	12:15

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1207005-01								
Station ID: FB25								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	U		15.0	ug/L	1	07/06/12	07/09/12 11:37	EPA 200.7/R3QA159
Lab ID: 1207005-02								
Station ID: FB25-F								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	U		15.0	ug/L	1	07/06/12	07/09/12 11:44	EPA 200.7/R3QA159
Lab ID: 1207005-03								
Station ID: HW08a_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1170**		15.0	ug/L	1	07/06/12	07/09/12 11:50	EPA 200.7/R3QA159
Lab ID: 1207005-04								
Station ID: HW08a-F_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1150**		15.0	ug/L	1	07/06/12	07/09/12 11:57	EPA 200.7/R3QA159
Lab ID: 1207005-05								
Station ID: HW08a-P_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**176**		15.0	ug/L	1	07/06/12	07/09/12 12:05	EPA 200.7/R3QA159

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Total Metals

Analyte	Result	Flags/ Qualifiers	Quantitation Limit	Units	Dilution	Prepared	Analyzed	Method/SOP#
Lab ID: 1207005-06								
Station ID: HW08a-PF_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**132**		15.0	ug/L	1	07/06/12	07/09/12 12:08	EPA 200.7/R3QA159
Lab ID: 1207005-07								
Station ID: HW08az_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1150**		15.0	ug/L	1	07/06/12	07/09/12 12:19	EPA 200.7/R3QA159
Lab ID: 1207005-08								
Station ID: HW08az-F_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1160**		15.0	ug/L	1	07/06/12	07/09/12 12:23	EPA 200.7/R3QA159
Lab ID: 1207005-09								
Station ID: HW08b-P_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1070**		15.0	ug/L	1	07/06/12	07/09/12 12:27	EPA 200.7/R3QA159
Lab ID: 1207005-10								
Station ID: HW08b-PF_R3								
Sample Matrix: Drinking Water								
Collected: 07/03/2012								
Manganese	**1030**		15.0	ug/L	1	07/06/12	07/09/12 12:30	EPA 200.7/R3QA159

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QC Data
Total Metals

Analyte	Result	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BG20601 - Metals Water Prep										
Blank (BG20601-BLK1)				Prepared: 07/06/12 14:27			Analyzed: 07/09/12 11:30			
Manganese	U	5.0	ug/L							
LCS (BG20601-BS1)				Prepared: 07/06/12 14:27			Analyzed: 07/09/12 11:34			
Manganese	52.1255	5.0	ug/L	50.000		104	85-115			
Duplicate (BG20601-DUP1)		**Source: 1207005-03**		Prepared: 07/06/12 14:27			Analyzed: 07/09/12 11:54			
Manganese	1178.13	5.0	ug/L		1172.86			0.4	20	
Matrix Spike (BG20601-MS1)		**Source: 1207005-04**		Prepared: 07/06/12 14:27			Analyzed: 07/09/12 12:01			
Manganese	1206.46	5.0	ug/L	50.000	1148.64	116	70-130			

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Notes and Definitions

%REC	Percent Recovery
RPD	Relative Percent Difference
U	Analyte included in the analysis, but not detected at or above the quantitation limit.

QUANTITATION LIMIT: The lowest concentration of an analyte that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method and that takes into account analytical adjustments made during sample preparation and analysis.

SOLID SAMPLE RESULTS - REPORTING PROTOCOL: Percent Solids (percent dry wt at 105 degrees C) determinations are routinely performed for most organic and inorganic analyses. Consequently, these samples are analyzed wet and converted to a dry weight result for reporting purposes. If metals and mercury analyses are requested, they are routinely prepared for analyses by an initial drying at 60 degrees C, homogenized prior to digestion, and are analyzed and reported on a dry weight basis. Oil-type samples are analyzed and reported on a wet weight basis for all analyses because of the nature of the sample matrix. Any exceptions to this protocol will be noted in the narrative.

ON-DEMAND: The term 'on-demand' analysis, if noted in the report narrative, refers to Section 13.1.4 in the Region III OASQA Laboratory Quality Manual, which provides procedures for non-routine analyses or analytes.